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“it is white, Gills and all; for the *place*, that it grows in
 “woods; and for the *tast*, that ’tis hotter than Pepper. Se-
 “veral particulars mention’d by you, are not observ’d or
 “not mention’d by him. I cannot say, that I have as yet met
 “with this Mushrom.

*An Extract of Mr. Flamsteed's Letter written to the Publisher
 from Derby Novemb. 16. 1672. concerning the Appulses, by
 him calculated for A. 1673. of the Moon, and the other Pla-
 nets to Fixed Stars; together with an Observation of the
 Planet Mars, made by the same.*

— I Herewith fend you my Annual task, but slight-
 ly done. Indeed my frequent Journeys and do-
 mestick businesss have kept me so employ’d, that I have
 not had time to make such Calculations as I intended. I
 have only noted the Time of the Moons true Conjunction
 with the Fixed Stars from the Learned *Heckerus* his *Ephemerides*, with the point then ascending at *London*; with a
 conjecture therefrom, when the Visible Occultations shall
 happen: from which the intelligent Observer may be suf-
 ficiently inform’d, when to wait for any appearance, and
 what will be observable.

Besides, having of late observed, with my seven foot Tube,
 some Appulses of the other Planets to Fixed Stars, and col-
 lected all the Observable ones of the next year, I have ad-
 ded them to the *Lunar* Appulses. Both are very slender la-
 bours, but may be very useful.

September last I was at *Torönley*. The first week that I
 intended to have observed δ there with *Mr. Torönley*, I twice
 observ’d him, but could not make two Observations, as
 I intended, in one night. The first night after my
 return, I had the good hap to measure his distances from
 two Stars the same night; whereby I find, that his *Paral-
 lax* was very small; certainly not 30 seconds: So that I
 believe, the Suns *Parallax* is not more than 10 seconds. Of
 this

this Observation I intend to write a small Tract, when I shall gain leisure ; in which I shall demonstrate both the Diameter and Distances of all the Planets by Observations ; for which I am now pretty well fitted.

Having observ'd the Distances and Positions of the 3 Stars, by which *♂* made his *transit*, I find, that *Tycho* errs 5 minutes at least both in the Places and Latitudes of them compared one with another. And certainly he errs as much in many others ; so that the labour of Monsieur *Hevelius* to rectify their places is very needful. Not that I find fault with *Tycho*; 'tis a wonder, (considering how difficult it is to set plain Sights to a small Star) that ever he performed so much and so well: But if M. *Hevelius* use not Glasses in their room, I fear, we shall but be where we were ; and yet without this Restitution we cannot expect any thing certain, much less accurate, in Astronomy.

Luna

Lunæ ad Fixas Appulsus, *Londini* A. 1673. Observabiles : A locis ejus veris, in Ephemeridibus *Heckeri* consignatis, prævisi, & brevibus notis descripti à *Joh. Flamsteed* Anglo.

1673.

Januar.

d. h.

17. 8. 21. Luna cum Fixa in π 3. 34. cum lat. Sept. 4. 36. Fixæ latitudo 3°-57'. horoscopus \approx 29 $\frac{1}{4}$. Ergo Luna circa horam 9. abscondet stellam Australem limbo.

h.

22. 10. 4. Luna cum Fixa in Ω 18. 56. latitudo vera sua 0°-46. Sept. Fixæ latitudo 0°-16'. Sept. Horoscopus \approx 11. Propterea Luna ante horam 9. abscondet \times medio limbi sui, vel circa paludem Mareotis. Eadem nocte,

Hora 16. 10. Luna cum alia Fixa in Ω 22°-45'. Lune tunc vera latitudo 0°-25'. Sept. Fixæ 0°-00'. Horoscopus \approx 17. Ergo Luna limbus borealis post horam ibit infra stellam.

24. 14. 7. Lune in π 22°-28'. latitudo Meridionalis 2°-5'. Fixæ in eodem loco latitudo : item Mer. 3°-2'. Horoscopus \approx 25 $\frac{2}{3}$. Ergo Luna, paulo post mediam noctem, vel stellam limbo Austrino abscondet, vel moxico intervallo supertransibit.

Februar.

d. h.

16. 11. 21. Luna in \subseteq 14-19. latitudo ejus 3°-16. Fixæ latitudo 2°-56'. Bor. Horosc. \approx 12. Ergo Luna, post semihoram, stellam lucis 6^a medio limbi obscuri sui occultabit.

h.

17. 15. 51. Luna cum Fixa in Ω 2-48. latitudo vera 2°-12. Sept. Fixæ latitudo etiam Sept. 1°-14'. punctum oriens \approx 6. Luna propterea, post semihoram, Austrino limbo abscondet stellam.

h.

19. 7. 46. Luna in Ω 25. 52. latitudinem habet Aust. 1°-5. Fixæ 1°-25'. Punctum Ecliptica ascendens est \approx 6 $\frac{1}{2}$. Ergo Luna ante semiquihoram boreali parte limbi obscuri stellam lucis 5^a abscondet.

Martii

h.

12. 5-59. Luna cum lucida Pleiadum latitudo 5°-10. borealissima inter Pleiades 4°-28'. Sept. Horoscopus \approx 23 $\frac{1}{2}$. Luna ergo ante horam 8. australi limbo abscondet stellam.

h.

14. 7-11. Luna cum fixa in π 23-59. latitudinem habet 4°-40. Fixæ tantum 4°-6'. Sept. orientis \approx 5 $\frac{1}{2}$. Luna ergo Fixam medio limbi obscuri, post semihoram, occultabit.

- h.*
18. 10. 57. Luna in Ω 22. 45. latitudo borea 0° . 27. Fixa ibidem 00° . 0' $\frac{1}{2}$. horoscopus m 27. propterea Luna in nonagesimo, paulo antea, Ecliptica, boreali parte obscuri limbi abscondet stellam.

Aprilis

d. h.

13. 6. 45. Nondum subducto Horizonti nostro sole, Lunæ Præsepis S iuncta latitudo vera 10° . 51'. Sept. Præsepis 10° . 14'. Horoscopus \approx 29'. Ergo Luna in Nonagesimo limbi obscuri boreali quadrante conteget nebulosas.

Junii

d. h.

6. 8. 31. Luna in S 25. 0. latitudo 2° . 5. Sept. Fixa ibidem latitudo 1° . 15 $\frac{1}{2}$. punctum oriens \pm 28. Propterea Luna post horam 9^{am} medio obscuri limbi conteget stellam.

h.

8. 10. 51. Luna in Ω 25. 52. latitudinem habet 0° . 40. Aust. Stella 1° . 25'. etiam Australis. Oritur tunc \approx 15: propterea Lunæ descendens limbus si non attinget stellam, eam tamen quam proximè assequetur

h.

9. 11. 21. Luna in m 10. 21. habet latitudinem 0° . 50. Aust. Fixa 2° . 29'. Oritur \times 3 $\frac{1}{2}$. Propterea Luna descendens stabit infra \times^{am} .

h.

21. 15. 21. Luna cum Fixa in \approx 13. 8. latitudo 0° . 28. Aust. Fixa 1° . 16'. item Aust. Horoscopus S 4 $\frac{1}{2}$. Ergo Luna post semihoram medio limbi lucidi abscondet stellam.

h.

29. 18. 00. Luna cum lucida Pleiadum latitudo 5° . 10. horoscopus Ω 9. Propterea oriente sole borealiores inter eas potest contegere.

Julii

d. h.

19. 14. 11. D° in \approx 21. 17. latitudo Sept. 0° . 19. Fixa latitudo in eodem loco 00° . 10'. Aust. Horoscopus S 12. Deinde post 22' temperis Luna cum sequenti stella, cujus locus \approx 21. 28. Lat 0° . 14'. A. Quamobrem circa hor. 15. Luna contiguas fixas parte limbi boreali conteget.

h.

27. 16. 57. Luna cum Fixa in II 3. 35. latitudinem obtinet 5° . 4. Sept. Fixa 3° . 57'. Oritur tunc Ω 19^{am}. Luna transit supra stellam, cui proximè appropinquat, circa 16 hor.

Augusti

d. h.

22. 12. 11. Luna in S 13. 58. cum latitudine boreali 5° . 12. Fixa cum ea latitudo 4. 8. B. Horoscopus S 14. Propterea circa horam 10 $\frac{1}{2}$ p. m. Australi parte limbi lucidi abscondet Fixam.

23. 8^h-53'. Luna cum lucida Pleiadum in \odot 25°. 25'. cum latitud. Sept. 5°-12'. Horoscopus \times 22°. Quamobrem Luna tunc exorta stellas Pleiadum praterit; à quibus tamen medico intervallo, tubis facile capacioribus dimetiendo, distabit.

27. 15^h-17'. Luna in \odot 25-0. latitudo vera borea 2°-2'. Fixa cum ea latitudo 1°-15'. Horoscopus Δ 20. Ergo circa horam 13 $\frac{1}{2}$ p.m. Luna fixam occultabit in Australi parte limbi lucidi.

Septembris

19^h. 14^h-24'. Luna erit in \odot 25°-25'. cum 5°-01'. latitud. septentrionali: Oritur tunc Δ 27. Luna propterea in nonagesimo limbus Austrinus borealiores teget Pleiadum, qui tunc tamen a media \odot lucida 15 min. ad boream distabit.

Octobris

9^h. 11^h-31'. Luna in \approx 21°-28'. latitudo borealis 0°-33'. Fixa cum ea latitudo 0°-14'. Austr. Horoscopus Δ 9. Quamobrem Luna circa horam 12 $\frac{1}{2}$ fixam hanc, & huic contiguam, paulo ante occasum suum, Austrino limbo teget.

17. 11^h-21'. Luna in Π 3°-35'. ejus latitudo 4. 42. Sept. Fixa cum ea latitudo 3°-57'. Horoscopus Δ 12. Quamobrem circa horam 10. eam in Australi parte lateris lucidi abscondet.

Novembris

12^d. 9^h-49'. Luna in \odot 13°-58'. latitudinem habet 5. 0. Sept. Fixa cum ea 4°-08'. Sept. oriente Δ 14 $\frac{2}{3}$. Luna propterea, tunc in ipso Nonagesimo sita, vel fixam austrino limbo teget, vel modico ab ea intervallo distabit.

13. 5°-56'. Luna lucida Pleiadum verè juncta latitudinem habet veram borealem tantum 4°-52'. Horoscopus tunc \odot 2. Propterea in Australi corporis sui semicirculo mediam lucidam abscondet Luna, in boreali borealiores. Appulsus 1^x circa solis occasum, ceteris subinde ordine conspiciendus.

Decembris

10^d. 16^h. 0'. Rursus Luna cum lucida Pleiadum, latitudinem obtinet 5°. 0'. Sept. Horoscopus Π 11°. Quamobrem Luna mox occidentalem subteget, & paulo ante occasum, lucidam.

11. 6^h. 6'. Luna in Π 3°-35'. latitudo Sept. 4°. 43'. Fixa cum ea 3°-57'. Horoscopus \odot 7. Luna ergo circa 5^h. medio corpore stellam tiget.

13. 10^h. 41'. Luna in \odot 5. 23. latitudo vera 2. 54. Sept. Fixa 2°-11'. Horoscopus Π 17°. Quamobrem Luna plena paulo postea stellam occultabit medio Australis semicirculi.

*Reliquorum quinque planetarum ad Fixas Appulsus, eodem Anno
1673 observabiles; ab iisdem J. Heckeri Ephemeridibus
deducti à J. Flamsteed.*

d.	H.r.	Planetarum loci.	Latitud. planet.	Distance a fixis in Longitud.	In Latitud.
Jan.	6 6 vesper.	♂ in ♀ 22°-59' 0" 36' B.	13' in ant. 20' ♀ ^{is} cum	0—2 ad Austr.	
	6 vesper.	♀ in ♂ 0—09 1—33 Au.	44 in ant. 15 ♀ ^{is} cum	0—23 Austr. ab ea	
	13 6 vesper.	♀ ♂ 7—30 1—23 Au.	25 in conf. 23 ♀ ^{is} cum	1—03 Austr.	
	15 6 vesper.	♀ ♂ 9—58 1—20 Au.	3 in ant. 24 ♀ ^{is} cum	0—04 Borad.	
	17 6 vesper.	♀ ♂ 12—25 1—16 Au.	14 in ant. 25 ♀ ^{is} cum	0—16 Austr.	
Febr.	4 6 mane	♂ ♀ 0—30 1—04 B.	8 in ant. 6 ♀ ^{is}	0—16 Bor.	
	5 6 vesper.	♂ ♂ 10—36 0—57 B.	cum stella 13 ♀ ^{is}	0—10 Austr.	
	7 6 mane	♂ ♀ 2—43 0—23 B.	24 in ant. 10 ♀ ^{is}	0—08 Bor.	
	8 6 vesper.	♂ ♂ 12—28 0—58 B.	5 in conf. 12 ♀ ^{is}	0—14 Austr.	
	13 6 vesper.	♀ ♀ 15—01 0—03 B.	20 in ant. 13 ♂ ^{um}	0—54 ¹ Austr.	
	14 6 vesper.	♂ ♂ 16—12 1—01 B.	4 in ant. 9 ♀ ^{is}	0—44 Austr.	
Martii	6 6 vesper.	♂ ♂ 28—40 1—09 B.	12 in ant. 24 ♀ ^{is}	0—03 Austr.	
	7 6 vesper.	♀ ♂ 10—34 1—29 B.	2 in ant. 13 ♀ ^{is}	0—22 Bor.	
	8 6 vesper.	♀ ♂ 11—42 1—33 B.	41 in ant. 12 ♀ ^{is}	0—21 Bor.	
	9 6 vesper.	♀ ♂ 12—50 1—37 B.	27 in conf. 12 ♀ ^{is}	0—25 Bor.	
	12 6 vesper.	♀ ♂ 16—11 1—49 B.	5 in ant. 9 ♀ ^{is}	0—03 Bor.	
	14 6 vesper.	♀ ♂ 18—55 1—57 B.	27 in ant. 11 ♀ ^{is}	0—39 Austr.	
	14 6 vesper.	♂ II 03—41 1—11 B.	2 in conf. 23 ♀ ⁱ	0—36 Bor. }	
	16 6 vesper.	♀ ♂ 20—58 2—05 B.	14 in ant. 22 ♀ ⁱ	0—07 Bor. }	
	18 6 vesper.	♀ ♀ 13—58 1—36 B.	5 in conf. 26 ^e Aurigæ	0—27 Austr.	
	20 6 vesper.	♂ II 7—27 1—12 B.	cum stella 9 ^a ♀ ^{is}	0—09 Austr.	
			9 in ant. 20 ♂ ⁱ	0—32 Bor.	
Aprilis	10 7 vesper.	♀ ♂ 16—39 1—41 B.	23 in conf. 9 ♂ ⁱ	0—05 Austr.	
	12 7 vesper.	♀ ♀ 10—53 1—35 B.	3 in conf. 8 ♀ ^{is}	0—48 Austr.	
	14 7 vesper.	♂ II 23—7 1—16 B.	11 in conf. 27 Aurigæ	0—10 ad Bor.	
	17 8 vesper.	♀ II 23—28 3—34 B.	30 in ant. 24 Aur.	0—32 ad Austr.	
	18 8 vesper.	♀ II 24—22 3—35 B.	23 in conf. 24 Aur.	0—31 Austr.	
Maii	10 8 vesper.	♂ ♀ 9—24 1—16 ¹ B.	14 in ant. 21 II ^{um}	0—14 Austr.	
	11 8 vesper.	♂ ♀ 10—11 1—16 ¹ B.	23 in conf. dictæ fixæ	0—14 Austr.	
	16 8 vesper.	♀ ♀ 14—14 2—43 ² B.	5 in ant. 8 ^e II ^{um}	0—13 Austr.	
	28 4 mane	♀ ♀ 13—26 2—31 B.	cum fixa 14 ^e ♂ ^{um}	1—0 Austr.	
Junii	4 8 vesper.	♂ ♀ 25—1 1—15 B.	1 in conf. 8 ^e Cancr.	0—0 ¹ / ₂ Austr. *	
	10 8 vesper.	♂ ♀ 2—33 1—13 B.	15 in ant. 1 ^e Cancr.	0—1 Austr.	
Julii	28 8 vesper.	♀ ♀ 13—38 1—10 B.	14 cum stella 9 ^a ♀ ^{is}	0—35 Austr.	

	<i>d. Hor.</i>	<i>Planetarum loci.</i>	<i>Latitud. planet.</i>	<i>Distantiæ à fixis in Longitud.</i>	<i>In Latitud.</i>
Aug	17 4 mane	♀ ♄ 18--50	3--37 Au.	16' in ant. 27 ^e ♄ ^{um}	0--11 Bor.
	18 4 mane	♀ ♄ 19--42	3--31 Au.	36 in conf. 27 ^e distæ	0--17 Bor.
	26 5 mane	♀ ♄ 27--0	2--44 Au.	14 in conf. 10 ^e Cancr.	0--26 Austr.
Sept.	5 5 mane	♀ ♄ 6--48	1--40 Au.	1 in ant. 12 ♄ ⁱ	0--14 Bor.
	12 6 mane	♂ ♄ 22--14	1--00 B.	3 in conf. 17 ♄ ^s	0--41 Austr.
	20 6 mane	♀ ♄ 22--38	0--26 A.	7 in ant. 10 ^e ♄ ⁱ	0--26 Austr.
	22 6 mane	♀ ♄ 24--48	0--16 A.	30 in ant. Cordis ♄ ^s	0--42 Austr.
	23 6 mane	♀ ♄ 25--54	0--12 A.	36 in conf. Cordis ♄ ^s	0--38 Austr.
	28 6 mane	♀ ♄ 1--31	0--11 B.	18 in ant. 15 ^e ♄ ^s	0--03 Bor.
Octob.	1 6 mane	♀ ♄ 0--21	1--37 B.	4 in conf. 6 ♄ ^s	0--12 Bor.
	5 6 mane	♀ ♄ 9--27	0--40 B.	32 in ant. 38 ♄ ⁱ	0--40 Austr.
	6 6 mane	♀ ♄ 10--36	0--43 B.	37 in conf. distæ Stelle	0--37 Austr.
	11 5 mane	♀ ♄ 13--40	1--57 B.	2 in conf. 9 ♄ ^s	0--12 Bor.
	13 5 mane	♀ ♄ 18--39	1--06 B.	17 in ant. 11 ♄ ^s	0--50 Bor.
	16 5 mane	♀ ♄ 22--10	1--15 B.	23 in ant. 5 ^e ♄ ^s	0--32 Bor.
	23 6 mane	♀ ♄ 00--29	1--32 B.	13 in conf. 6 ^e ♄ ^s	0--07 Bor.
	29 6 mane	♂ ♄ 2--15	1--03 B.	7 in ant. 24 ♄ ^s	0--31 Bor.
	31 6 mane	♀ ♄ 10--04	1--47 B.	22 in conf. 1 ^e ♄ ^s	0--08 Bor.
Novem.	3 7 mane . etiam	♂ ♄ 2--27 ♀ ♄ 13--38	0--32 B. 1--50 B.	4 in conf. 24 ^e ♄ ^s cum fixa 9 ⁱ ♄ ^s	0--00 ¹ E. versus * 0--05 Bor. *
	5 7 mane	♂ ♄ 4--00 ♂ ♄ 3--47	1--01 B. 0--31 B.	♂ ♄ 13' 0"	0--30 Borealiar.
	10 6 mane	♀ ♄ 22--05	1--55 B.	6' in ant. 17 ^e ♄ ^s	0--10 Bor.
	15 6 mane	♂ ♄ 10--33	0--25 B.	1' in conf. 1 ^e ♄ ^s	0--01 Austr. *
	23 6 mane	♂ ♄ 7--43 ♀ ♄ 8--00	1--02 B. 1--52 B.	♂ ♄ 53' circ. ♄	0--50 Borealiar.
	24 7 mane	♂ ♄ 9--17	1--51 B.	26' in ant. 2 ^e ♄	0--04 Austr.
Decemb.	8 6 mane	♂ ♄ 26--21	0--12 B.	16 in conf. 12 ♄	0--05 Bor.
	10 6 mane	♂ ♄ 10--33	1--03 B.	1 in conf. 1 ^e ♄	0--37 Bor.
	11 6 mane	♀ ♄ 0--16	1--28 B.	11 in conf. 5 ^e ♄ ^s	0--14 Austr.
	12 6 mane	♂ ♄ 29--09	0--10 B.	♂ cum fixa 6 ⁱ ♄ ^s	1--04 Austr. *
	24 7 mane	♀ ♄ 16--30	0--58 B.	14 in ant. 27 Ophiuchi	0--34 Austr.
	26 7 mane	♀ ♄ 19--00	0--54 B.	22 in conf. 30 Ophiuchi	0--04 Austr. ver.

Stella Jovis in Ephemeride assignati loci deficiunt hoc anno 13'. ab iis quos cœlitus observavimus : propterea ejus omnes ad Fixas appulsus ante duos & amplius dies quàm consignantur observari possunt. At in 8^{ta} & 9^{ta} ad eum applicationibus, eadem 13 min. ipsius loco adjeci ; ut, si aliquid à descripta Planetarum positione observat a dissentiat, in illorum solis locis peccare Ephemerides credantur.

Sic omnes majorum Planetarum ad Fixas appulsus, Tubo Optico gradum unum recipiente, observabiles, brevi tabellâ complexus sum. Ne nos ulla observandi præter haberetur opportunitas imprævisa, cura fuit. Vestrum dehinc, fidi Cælispices, fueris, ne harum ulla neglecta pereat : Ab his enim accuratè si tandem fixarum loci restituantur (quod plurimum desideratur,) optimè veri planetarum motus cognosci, restitui, & cœlis annuentes tabulæ construi possunt : quod in votis habet

Cælorum & Cælispicum
Assiduus Cultor